

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

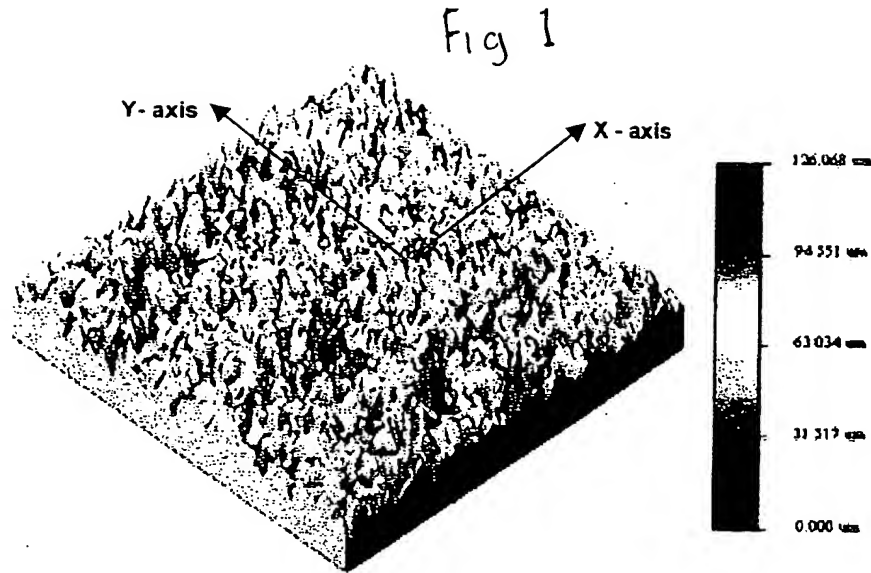
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



AMPLITUDE PARAMETERS

Root-mean-square deviation of the surface	Sq (μm)	6.742
Skewness of Topography height distribution	Ssk	-0.324
Kurtosis of Topography height distribution	Sku	3.382
Highest Peak from the mean surface	Sp (μm)	34.506
Lowest Valley from the mean surface	Sv (μm)	-39.858
Height between the lowest and highest points	Sz (μm)	74.364

SPATIAL PARAMETERS

Density of summits of the surface	Sds (1/mm)	1.621e+003
Texture aspect ratio of the surface	Str	0.770
Fastest decay autocorrelation length	Sal (mm)	0.069
Texture direction of the surface	Sld (degree)	*

HYBRID PARAMETERS

Root-mean-square slope of the surface	Sdq	0.775
Average summit curvature of the surface	Ssc (1/ μm)	0.261
Developed surface area ratio	Sdr (%)	20.366

FUNCTIONAL PARAMETERS

Surface bearing index (5%)	Sbi	0.279
Core fluid retention index (5-80%)	Sci	1.405
Valley fluid retention index (80%)	Svi	0.132
Peak material volume of the surface (10.0%)	Vmp ($\mu m^3/mm^2$)	2.805e+005
Core material volume of the surface (10.0-80.0%)	Vmc ($\mu m^3/mm^2$)	5.982e+006
Core void volume of the surface (10.0-80.0%)	Vvc ($\mu m^3/mm^2$)	7.524e+006
Valley void volume of the surface (80.0%)	Vvv ($\mu m^3/mm^2$)	8.860e+005

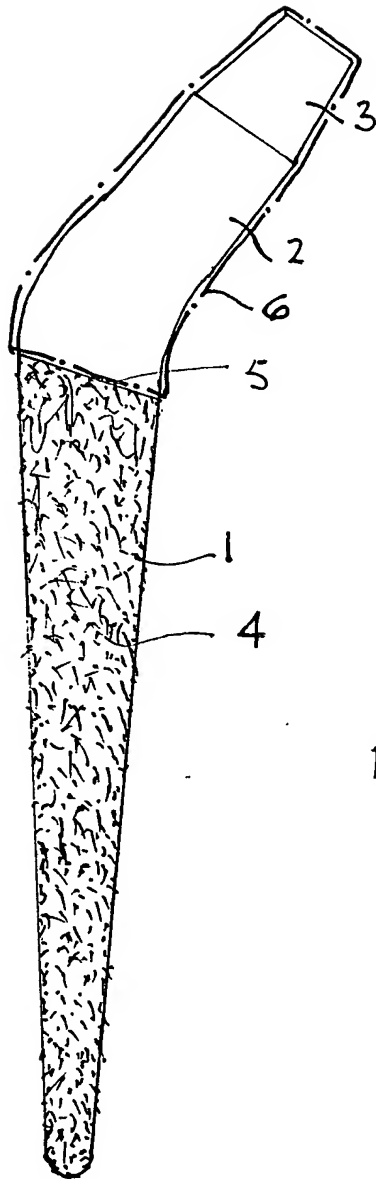


Fig 2

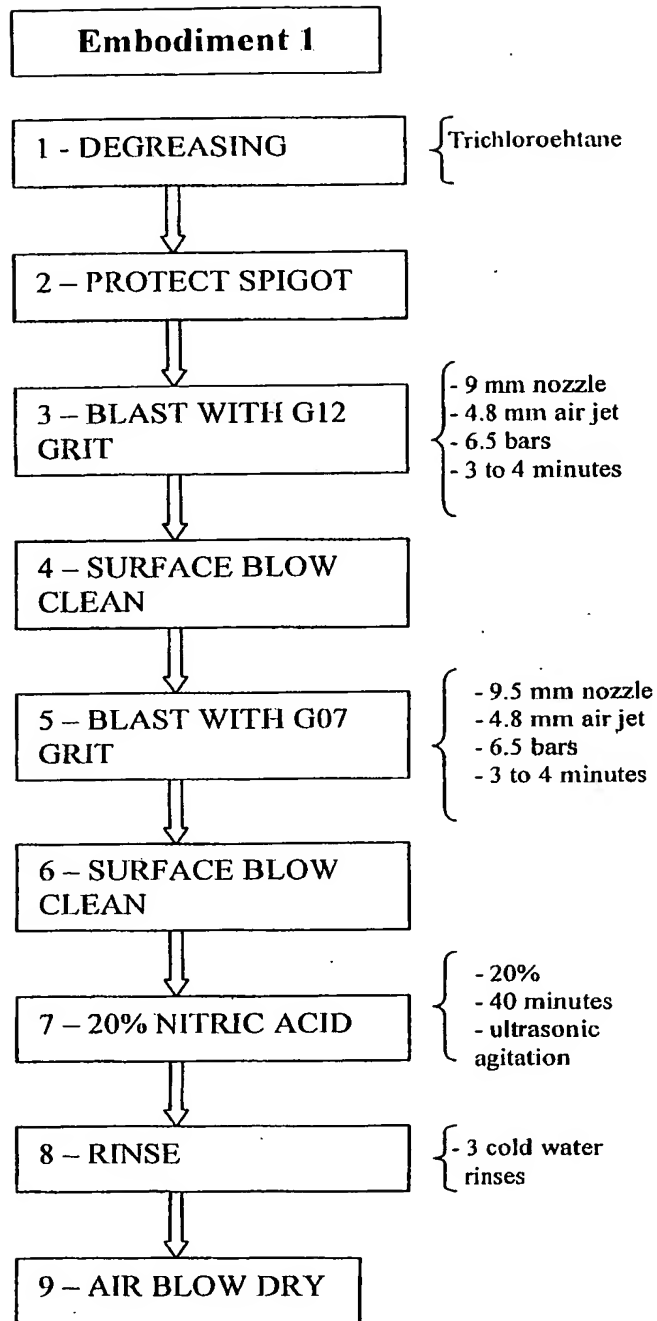


Fig 3

⇒ **Uncontaminated Surface**
⇒ $S_q = 5 - 10 \mu\text{m}$
⇒ $S_t = 50 - 100 \mu\text{m}$

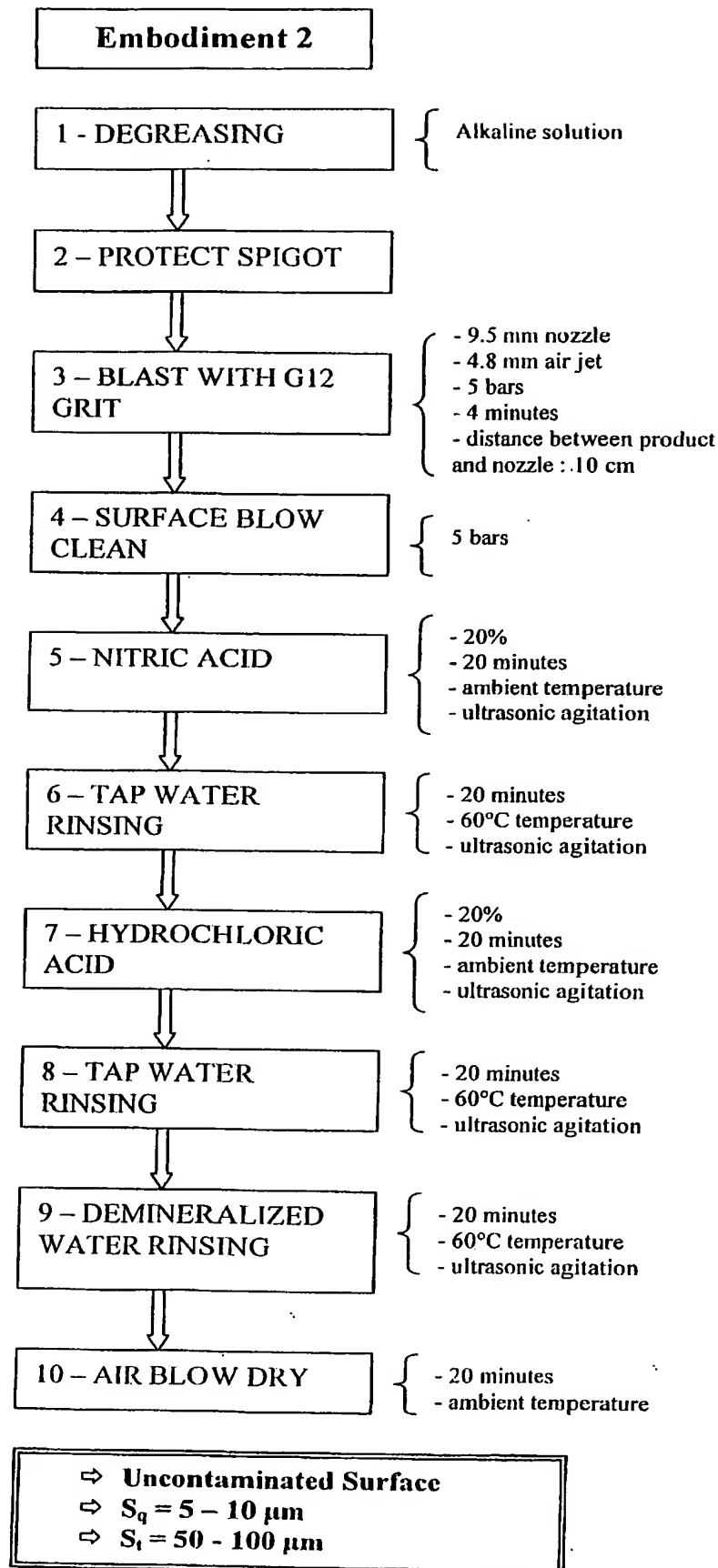


Fig 4

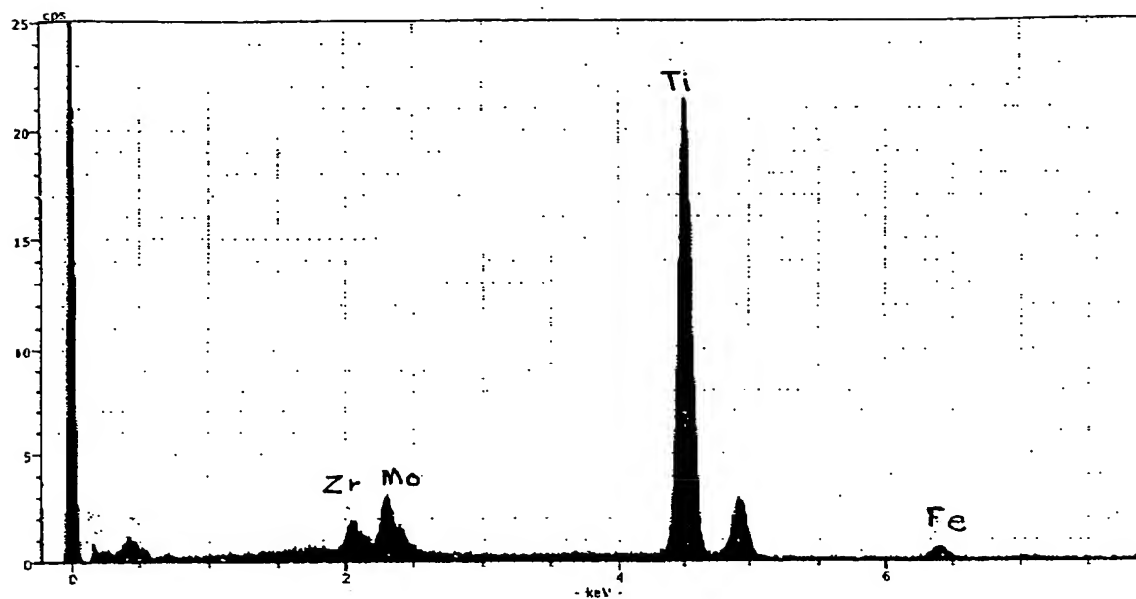


Fig 5

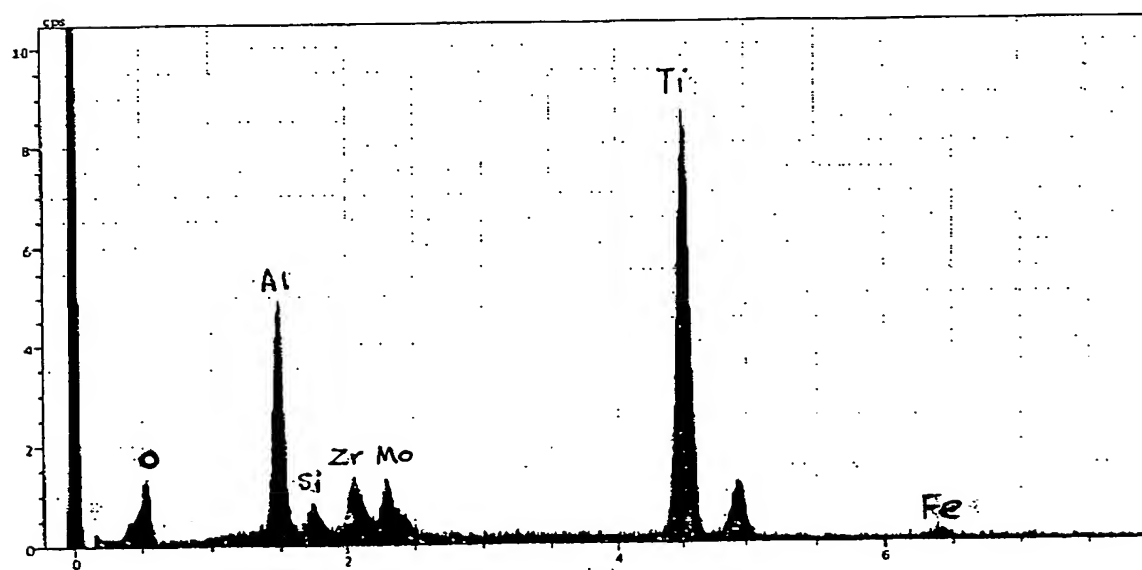


Fig 6